

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 20   | US-5136483-\$.DID. OR<br>US-5477436-\$.DID. OR<br>US-5713654-\$.DID. OR<br>US-5791757-\$.DID. OR<br>US-5851063-\$.DID. OR<br>US-6036340-\$.DID. OR<br>US-6152588-\$.DID. OR<br>US-6406172-\$.DID. OR<br>US-6412971-\$.DID.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/04/20 12:43 |
| S2    | 2    | ("4951179"   "5136483").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | OFF     | 2005/04/20 12:30 |
| S3    | 18   | ("5477436").URPN.  | USPAT   | OR               | OFF     | 2005/04/20 12:31 |
| S4    | 13   | ("4694295"   "4868718"  <br>"4930049"   "4932747"  <br>"5184883"   "5278731"  <br>"5311410"   "5365413"  <br>"5400225"   "5436805"  <br>"5438487"   "5452186"  <br>"5477436").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | OFF     | 2005/04/20 12:31 |
| S5    | 12   | ("5365413").URPN.  | USPAT   | OR               | OFF     | 2005/04/20 12:33 |
| S6    | 18   | ("5452186").URPN.  | USPAT   | OR               | OFF     | 2005/04/20 12:34 |
| S7    | 12   | ("5791757").URPN.  | USPAT   | OR               | OFF     | 2005/04/20 12:36 |
| S8    | 20   | ("4141058"   "5005108"  <br>"5043850"   "5099343"  <br>"5101325"   "5111366"  <br>"5165772"   "5222793"  <br>"5222794"   "5271077"  <br>"5359691"   "5365413"  <br>"5375043"   "5390276"  <br>"5465194"   "5526247"  <br>"5528709"   "5570951"  <br>"5668913"   "5671994").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | OFF     | 2005/04/20 12:36 |
| S9    | 37   | ("5222793").URPN.  | USPAT   | OR               | OFF     | 2005/04/20 12:37 |
| S10   | 37   | ("5222793").URPN.  | USPAT   | OR               | OFF     | 2005/04/20 12:38 |
| S11   | 24   | ("4357594"   "4411057"  <br>"4628422"   "4694295"  <br>"4862802"   "4868718"  <br>"4930049"   "4932747"  <br>"4935722"   "5015918"  <br>"5111182"   "5184883"  <br>"5222795"   "5278731"  <br>"5311410"   "5365413"  <br>"5373280"   "5400225"  <br>"5436805"   "5438487"  <br>"5452186"   "5477436"  <br>"5644584"   "5713654").PN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | OFF     | 2005/04/20 12:39 |

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S12 | 24   | (362/553-554.ccls. or 362/556.ccls. or 362/509-511.ccls. or 362/538.ccls.) and @ad<"20030818" and laser with semiconductor | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:49 |
| S13 | 8381 | @ad<"20030818" and laser with semiconductor and epitaxial  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:49 |
| S14 | 3036 | @ad<"20030818" and laser with semiconductor same epitaxial   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:50 |
| S15 | 946  | @ad<"20030818" and laser with semiconductor same epitaxial and (waveguide\$2 or optical adj guide\$2)                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:50 |
| S16 | 418  | @ad<"20030818" and laser with semiconductor same epitaxial and (waveguide\$2 or optical adj guide\$2) with (gain or index) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:51 |
| S17 | 400  | @ad<"20030818" and laser with semiconductor same epitaxial and waveguide\$2 with (gain or index)                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:52 |
| S18 | 207  | @ad<"20030818" and laser with semiconductor with epitaxial and waveguide\$2 with (gain or index)                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:51 |
| S19 | 0    | @ad<"20030818" and laser with semiconductor with epitaxial and waveguide\$2 with (gain or index) and "362".clas.           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:51 |
| S20 | 0    | @ad<"20030818" and laser with semiconductor same epitaxial and waveguide\$2 with (gain or index) and "362".clas.           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:51 |
| S21 | 72   | @ad<"20030818" and laser with semiconductor same epitaxial same waveguide\$2 with (gain or index)                          | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/04/20 12:53 |

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S22 | 54   | @ad<"20030818" and laser with semiconductor same epitaxial same waveguide\$2 with (gain or index) and wavelength\$2   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 12:53 |
| S23 | 17   | @ad<"20030818" and laser with semiconductor same epitaxial same waveguide\$2 with gain and waveguide\$2 with index and wavelength\$2  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 12:54 |
| S24 | 219  | index adj guide\$2 with waveguide and semiconductor adj laser   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 13:08 |
| S25 | 13   | index adj guide\$2 with waveguide same semiconductor adj laser and gain adj guide\$2 with waveguide same semiconductor adj laser  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 13:10 |
| S27 | 9    | index adj guide\$2 with waveguide same semiconductor adj laser and gain adj guide\$2 with waveguide same semiconductor adj laser and epitaxial and layers                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 13:14 |
| S28 | 8    | index adj guide\$2 with waveguide same semiconductor adj laser and gain adj guide\$2 with waveguide same semiconductor adj laser and epitaxial and layers and wavelength\$2 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 13:30 |
| S29 | 3    | semiconductor adj laser same epitaxial with two with layers with (frequencies or wavelengths)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 13:52 |
| S30 | 3    | semiconductor adj laser same epitaxial same two with layers with (frequencies or wavelengths)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 13:53 |
| S31 | 7    | semiconductor adj laser same epitaxial same two with layers same (frequencies or wavelengths)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:01 |
| S32 | 3329 | double adj heterostructure  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:02 |

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S33 | 876 | double adj heterostructure same semiconductor adj laser  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:02 |
| S34 | 276 | double adj heterostructure same semiconductor adj laser and epitaxial  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:02 |
| S35 | 28  | double adj heterostructure same semiconductor adj laser and epitaxial and two adj layers   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:04 |
| S36 | 17  | double adj heterostructure same semiconductor adj laser and epitaxial and two adj layers and waveguide   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:05 |
| S37 | 12  | double adj heterostructure same semiconductor adj laser and epitaxial and two adj layers and waveguide with (index or gain)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:06 |
| S38 | 33  | heterostructure same semiconductor adj laser and epitaxial and two adj layers and waveguide with (index or gain)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:06 |
| S39 | 32  | heterostructure same semiconductor adj laser and epitaxial and two adj layers and waveguide with (index or gain) and @ad<"20030818"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:07 |
| S40 | 27  | heterostructure same semiconductor adj laser and epitaxial and two adj layers and waveguide with (index or gain) and (wavelength\$2 or frequencies) and @ad<"20030818" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:40 |
| S41 | 29  | (372/43-45.ccls. or 372/75.ccls.) and (plurality multi\$2 second) near active and edge near emitting   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:43 |
| S42 | 29  | (372/43-45.ccls. or 372/75.ccls.) and (plurality multi\$2 second) near active and edge near emitting   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:49 |

|     |    |   |   |    |     |                  |
|-----|----|---|---|----|-----|------------------|
| S43 | 2  | "6693933".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:47 |
| S44 | 29 | (372/43-45.ccls. or 372/75.ccls.)<br>and (plurality mult\$2 second) near<br>active and edge near emitting and<br>(cladding or gain or index or dbr)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 14:52 |
| S45 | 22 | (372/43-45.ccls. or 372/75.ccls.)<br>and (plurality mult\$2 second) near<br>active and edge near emitting and<br>(gain or index)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:36 |
| S46 | 28 | (US-4651322-\$ or US-4807235-\$<br>or US-4932747-\$ or US-4935722-\$<br>or US-5123070-\$ or US-5136483-\$<br>or US-5222793-\$ or US-5319655-\$<br>or US-5365413-\$ or US-5438583-\$<br>or US-5452186-\$ or US-5465194-\$<br>or US-5477436-\$ or US-5499261-\$<br>or US-5713654-\$ or US-5791757-\$<br>or US-5851063-\$ or US-6036340-\$<br>or US-6144683-\$ or US-6152588-\$<br>or US-6377596-\$ or US-6381258-\$<br>or US-6403986-\$ or US-6406172-\$<br>or US-6412971-\$ or<br>US-6424669-\$).did. or<br>(US-6693933-\$).did. or<br>(JP-61242089-\$).did. | USPAT;<br>JPO   | OR | OFF | 2005/04/20 15:54 |
| S47 | 2  | S46 and phosphor  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 15:55 |
| S48 | 1  | tri adj color adj phosphor and<br>semiconductor adj laser   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:54 |
| S49 | 8  | color adj phosphor and<br>semiconductor adj laser   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/20 15:56 |
| S55 | 6  | (372/73.ccls.) and phosphor\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:38 |

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S56 | 668 | (372/43-50.ccls.) and phosphor\$4 and @ad<"20030818"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:39 |
| S57 | 345 | (372/43-50.ccls.) and phosphor\$4 and @ad<"20030818" and (wavelengths or frequenc\$4)                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:44 |
| S58 | 0   | (372/43-50.ccls.) and (plurality mult\$2 second) near active and edge near emitting and (gain or index) and phosphor    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:40 |
| S59 | 2   | (372/43-50.ccls.) and (plurality mult\$2 second) near active and edge near emitting and phosphor                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:40 |
| S60 | 5   | (372/43-50.ccls.) and edge near emitting and phosphor   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:41 |
| S61 | 94  | (372/43-50.ccls.) and phosphor\$4 and @ad<"20030818" and active with (wavelengths or frequenc\$4)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:47 |
| S62 | 0   | (372/43-50.ccls.) and tri adj color\$4 with phosphor\$4 and @ad<"20030818" and active with (wavelengths or frequenc\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:48 |
| S63 | 0   | (372/43-50.ccls.) and tri adj color\$4 with phosphor\$4 and @ad<"20030818"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:48 |
| S64 | 1   | (372/43-50.ccls.) and multi\$4 adj color\$4 with phosphor\$4 and @ad<"20030818"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:48 |
| S65 | 1   | (372/43-50.ccls.) and (multi\$4 or plurality) adj color\$4 with phosphor\$4 and @ad<"20030818"                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:48 |

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S66 | 3   | semiconductor adj laser same phosphor with (red and green and blue)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:55 |
| S67 | 4   | semiconductor adj laser same phosphor\$4 with (red and green and blue)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 11:55 |
| S68 | 18  | semiconductor adj laser with ultraviolet same phosphor\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/21 16:42 |
| S69 | 32  | (US-20040135504-\$ or US-20050041433-\$).did. or (US-4651322-\$ or US-4807235-\$ or US-4932747-\$ or US-4935722-\$ or US-5123070-\$ or US-5136483-\$ or US-5222793-\$ or US-5278856-\$ or US-5319655-\$ or US-5365413-\$ or US-5438583-\$ or US-5452186-\$ or US-5465194-\$ or US-5477436-\$ or US-5499261-\$ or US-5713654-\$ or US-5791757-\$ or US-5851063-\$ or US-6036340-\$ or US-6144683-\$ or US-6152588-\$ or US-6377596-\$ or US-6381258-\$ or US-6403986-\$ or US-6406172-\$ or US-6412971-\$).did. or (US-6424669-\$ or US-6693933-\$ or US-6822991-\$).did. or (JP-61242089-\$).did. | US-PGPUB;<br>USPAT;<br>JPO                            | OR | OFF | 2005/04/25 15:16 |
| S70 | 3   | S69 and ultraviolet and white   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/25 15:18 |
| S71 | 14  | semiconductor adj laser same white same phosphor\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/25 15:28 |
| S72 | 320 | 362/511.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/25 15:29 |

|     |     |                            |   |    |     |                  |
|-----|-----|----------------------------|---|----|-----|------------------|
| S73 | 162 | 362/511.ccls. and lens     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/25 15:31 |
| S74 | 400 | 362/520-522.ccls. and lens | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/04/25 15:31 |